The Most Important Mineral in the World

Vol. 7

APRIL 1926

No. 10



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#### A MONTHLY MARKET JOURNAL

DEVOTED TO THE INTERESTS OF THE ASBESTOS AND MAGNESIA INDUSTRIES

A. S. ROSSITER

EDITOR

#### PUBLISHING OFFICE

## 246 NORTH 17th STREET

PHILADELPHIA.

PENNSYLVANIA

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Volume VII

APRIL 1926

Number 10

## CONTENTS

-							Pe	nge
Efficient Insulation for High I	Pressure	Steam	Piping		*		÷	3
New Asbestos Deposits	-							11
Studying Warm Air Heating	In Pub	lie Sch	ools	-			-	11
Grading of Asbestos -						-		13
Another Small Use for Asbe	stos Pa	per	-				-	14
Asbestos as a Safety Device			-			-		14
Market Conditions -		-		-			-	16
Brake Lines		-			-			20
Automobile Production					-			22
Motor Fatalities -	-		-		-			22
Comments from Foreign Corre	sponder	nts						
Ups and Downs of Crocido	lite	-	*		*		*	24
The Amianthus Mine		*			-	-		24
Amosite				-	-		-	24
India -	-	*	*			-		26
Magnesite in 1925	-	-	*	-			-	26
Contractors and Distributors I								
Justification for the Middle	eman	*			•	*		28
The Poet and Asbestos	*	-		-	~		-	30
Canadian Production compare	ed with	Rhode	sian					
and South African-Graph		-				*		32
Production Statistics	*	-		-	-		*	33
Imports and Exports	*		*		*	-		34
News of the Industry			*		*	*		39
Patents	-	-	-	-	-			43

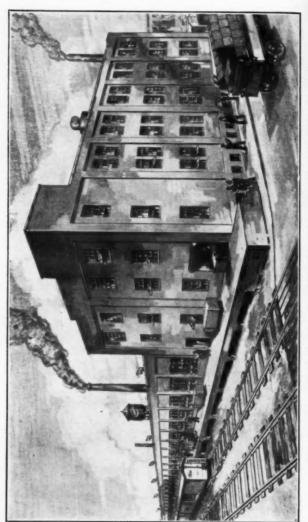
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April 1926

Page One



The Asbestos Shingle Plant of the Phillp Carey Company, (See page 8 for description).

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# Efficient Insulation for High Pressure Steam Piping

By Benjamin F. Betts, Associate Editor, The American Architect

1. General Qualifications.

Necessity for Insulation.

Engineers and owners have for many years recognized the importance of insulating steam lines against heat losses. In recent years, the economic importance of such protection has perhaps been more forcefully called to their attention thru the increasing costs of fuel, equipment and labor. In manufacturing plants, competition has necessitated the placing of operating costs upon a high plane of efficiency.

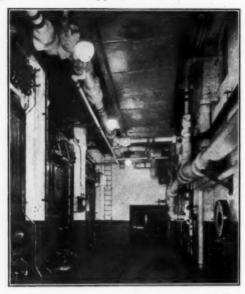
Heat lost from steam between its source and point of application to mechanical energy means an increased overhead cost which is nonproductive. This operating charge does not stop with added fuel cost but, depending upon the size of the plant, may greatly increase boiler size, equip-

ment and labor cost.

The demand for large office buildings, hotels, enormous factories and structures of like nature has necessitated the installation of complete power plants to serve the varied requirements of such buildings. The types of equipment used usually demands the use of high pressure steam and the reduction of heat losses to a minimum. High pressure steam must frequently be transmitted to considerable distances and delivered at a fairly high temperature. Uncovered mains, because of their isolated position, are subject to much greater heat losses than an equal amount of radiating surface used for heating purposes. This loss causes a serious expenditure of fuel, which may shortly far exceed the initial cost of a good insulating covering.

Steam pressure of 100 pounds or more is rated as "high pressure" and ranges in temperature from 300° to 800° F. Materials used for insulating low or medium pressure steam lines prove inadequate for piping subject

to these high temperatures. As a result the manufacturers of insulating materials have developed a product particularly suitable to this type of work.



The boiler room of the Gillette Safety Razor Company's factory is an excellent example of a modern plant, well equipped from oil burning boilers to well insulated high pressure steam piping.

#### Heat Losses.

Heat losses from high pressure steam lines are exceedingly heavy and demand insulation of high efficiency. An uncovered 4 inch pipe, 100 feet long having a difference in temperature between the pipe and surrounding air of 400° F. will dissipate about 500 pounds of coal in 24 hours, and an 8 inch pipe will waste nearly 1000 pounds of coal in the same time. One has only to estimate the number of feet of pipe in the plant and the cost of the fuel thus thrown

Page Four

April 1926

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away to be quickly convinced that the proper protection against heat losses is invaluable and an investment rather than an expense.

#### Necessary Qualifications of Insulating Materials.

A detailed discussion of fuel saving thru proper insulation involves many factors and is a subject unto itself. Those interested in learning the return on the cost of protection from heat losses can profitably have a complete investigation made of their plant and determine the savings which will be effected. Once convinced that high pressure insulation is a necessity, the questions of what material to use, what thickness is required, how it should be applied and what efficiency may be expected, naturally present themselves.

The first qualification of any insulation material is that it shall cont in a maximum of dead air spaces. Non-circulating air is one of the best insulators known. To prevent radiation from the bare pipe we must place a protective blanket of dead air around the pipe which will hold the heat in. Materials sufficient for insulating hot and cold water lines are not adequate for high pressure lines, where high temperatures must be resisted. Where vibration is encountered the covering must possess high tensile strength and if exposed to moisture it must possess the qualities necessary to prevent disintegration from this cause. The conditions encountered should be known and the insulation material selected for its ability to resist these destructive forces of thermal and mechanical deterioration.

Laminated asbestos paper coverings high in the first insulating qualifications tend to break down when subjected to temperatures above 400° F. Up to 600° F. 85% Magnesia and Asbestos Coverings also highly rated as insulators prove economical and efficient. After this temperature is reached, carbonate of magnesia begins to decompose and it is highly desirable to use some form of heat resisting material, as a first layer immediately surrounding the pipe.

# Efficient Combinations.

There is an abundance of hard, strong refractory materials which ably resist high temperatures, but are de-

April 1926

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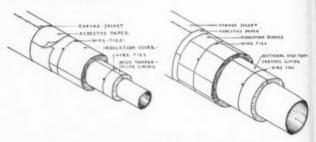
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ficient in insulating qualities. On the other hand, there are numerous light weight materials rated high in insulating value which disintegrate more or less rapidly under high temperatures. For temperatures above 600° F. a composition of asbestos fibre, refractory bonding materials and carbonate of magnesia or diatomaceous earth are commonly used. In general these are not as efficient in the prevention of heat transmission as the laminated cellular asbestos coverings or 85% Magnesia and are used as a high temperature resisting lining in combination with either of these on the outside.



Insulation should be applied in two layers on pipes 2 inches and over. Where the difference in temperature between the pipe and the surrounding air exceeds 600° F. a high temperature lining should be used over the pipes, with a second layer high in insulation value over it. For 10 inch and 12 inch pipe the first layer is of sectional covering and the second layer blocks wired on and covered with asbestos paper and canvas.

A good laminated cellular asbestos covering has greater resistance to vibration than does 85% Magnesia and should be used on high pressure steam lines subject to this condition, as the exterior covering at least. The asbestos covering possesses considerable tensile strength while the 85% Magnesia is apt to develop small fractures when subjected to constant jars and its efficiency will be slightly impaired.

Page Six

April 1926

# Grey ASBESTOS & ASPHALT PRO

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> > Magnesia

Carbonate of Magnesia Powder Pure Carbonate of Magnesia Block Light Calcined Magnesia Heavy Calcined Magnesia In Technical and U. S. P. Grades

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Moisture Protection.

Steam lines are more or less exposed to moisture. All pipes carried out of doors above ground should be properly protected from the weather with a waterproof jacket Those below ground should be installed in properly drained conduit and the pipe covering should be waterproofed Indoors piping may be open to exposure from moisture due to manufacturing processes, leaks at joints, or breaks in the Materials possessing good insulating qualities are necessarily porous and absorb a large amount of moisture. The products of reputable manufacturers, which are designed for high pressure steam work, while high in absorptive qualities are in general but little affected by wet conditions. It is, however, always advisable to cover lines exposed constantly to wet conditions with separate canvas jackets sewed on and painted. This is an excellent investment in durability, efficiency and appearance.

(Next month Mr. Betts will continue his discussion of High Pressure Insulation, treating particularly of installation methods.)

The frontispiece this month is a reproduction of the artist's drawing of the new plant built by the Philip Carey Company at Lockland, for the manufacture of Asbestos Cement Shingles and Sheets.

The building itself represents the most advanced idea in modern factory construction; altho it covers an area 100 by 450 feet, it is built without any supporting posts to break up the interior expanse, and the full weight of the roof is carried by the walls. Every possible facility for the quick lo ding and unloading of cars is afforded by a ten foot platform around the outside of the building. All machinery in the plant is electrically operated, each machine having an individual drive. Materials are loaded and unloaded by 3-ton mules, for which a special charging station is operated.

The complete plant was in operation within seven months from the time of breaking ground, thus establishing a record for speed in erection.

# Johns~ Manville

**INCORPORATED** 

April 1926

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EXPORT

# Fact and Fancy

New Asbestos Deposits.

Not since the War have we noticed so much interest displayed in new deposits of Asbestos as is exhibited at the present time. Within the last two months letters have been received from perhaps ten different sources telling of new deposits, enclosing specimens of material and engineers reports.

Some of these concerned the amphibole variety, in which the majority of our readers express little interest, but at least three of them were deposits of chrysotile, and the specimens of material showed promise. Moreover the deposits are in easy reach of railroad facilities.

The intensive work being done by owners of various amphibole deposits indicates a much wider application of this variety in the future. Some very important uses have already been developed, and in some cases, particularly that of filter fibre, the demand exceeds the supply.

All of which indicates that the Asbestos Industry is not standing still, but has a promising future.

## Studying Warm Air Heating in Public Schools.

The Lane Technical High School in Chicago, thru the efforts of various warm air heating agencies, has established a night class for the study of practical warm air heating.

The class has a warm air furnace installed in the class room, so that practical demonstrations can be given. The whole course can be covered in eight evenings, and consists sof discussions of heat transmission by radiation, reviewing of the tests conducted by the University of Illinois, the Standard Code of the American Society of Heating and Ventilating Engineers.

The attendance at these classes is gratifying and undoubtedly the work will be continued, perhaps on larger scale.

An effort should be made by the manufacturers of Low Pressure Coverings to see that sufficient emphasis is laid on the use of insulation.

1926

# Allbestos Corporation

High Grade Asbestos Textiles

Yarns, Brake Linings
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Plain and Metallic Asbestos Cloth Wick, Rope and Asbestos Specialties

Manufactured directly from the raw materials to the finished product in our own factory.

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Grading of Asbestos.

The article published on page 22 of March "ASBES-TOS" commenting on the rather cumbersome system (if system it can be called) of designating the various grades of Asbestos Fibres, has created quite a bit of comment, adverse and otherwise.

Perhaps the most interesting comment has been received from the Testing Laboratory of a large consumer of Ashestos and Asbestos Products, which says:

"We have been very much impressed with the article in the March issue of 'ASBESTOS' entitled 'Grading of Asbestos.' Without commenting on the suggested scheme, we firmly believe that the whole asbestos industry would be greatly benefited by having clean, clearcut specifications drawn up showing definitely what grades of asbestos are offered to the public and what the characteristics of these grades are expected to be. We would suggest that the best way to handle this proposition would be for the asbestos producers to meet in a joint committee with representative consumers. Might we also suggest that the American Society for Testing Materials might prove to be a very good medium thru which this could be accomplished?"

Another correspondent (who, by the way is a very large buyer of Asbestos Crudes and fibres) in commenting on this article says: "The object in view appeals to us as a most desirable attainment."

A few of our readers seem to think that the criticism of Canadian designations of grades is unwarranted, but without exception these readers are men who have been in the Asbestos Industry for years, and when a certain grade is mentioned know instantly the quality, length, and "feel" of the fibre, and exactly what results will be obtained from it.

To many in the Industry, particularly those somewhat new to it, 0-8-6-2 means nothing whatever except a line of figures. This is illustrated by an instance recently brought to our attention. A man who is fast becoming an important factor in the Industry threw up his hands in despair after being quoted on various "grades," and demanded exact

April 1926

knowledge of what the various grades would and would not do when used for his particular purposes.

While it is perfectly true that the varying qualities from the different mines are hard to classify, we believe a real system could be worked out if real time and effort were put forth.

#### Another Small Use for Asbestos Paper.

The Radio World suggests to its readers, that when working on outdoor antenna, an effective method of keeping the soldering iron hot is to line a large size preserve jar with sheet asbestos and place the iron in the jar.

This reminds us of the contention of the manufacturers of Air Cell Covering that a steam pipe covered with plain asbestos paper will lose more heat than one entirely bare. We are wondering if the same principle holds good inversely in this case of the preserving jar.

It is possible a short length of one or two ply air cell covering placed in the jar would give better results.

#### Asbestos as a Safety Device in Film Plant.

In Shelton, Connecticut there is a factory that devotes its efforts to the reclaiming of films, that is, removing the pictures from discarded film so that it can be used again.

During the latter part of March a spark caused an explosion, set fire to a highly-inflammable film and enveloped one of the workmen in flames.

So severely was the man burned that death resulted, and the Coroner in his report recommended Asbestos clothing, with rubber shoes and gloves, for employees in this and similar factories.

There are probably many other places where an asbestos suit would minimize danger, but thru indifference or procrastination is not supplied by the factory owners.

The Real Estate Board of Louisville, Ky., has under consideration a "Certified House Plan," by which residence construction would be certified as to durability, etc. The Board has appointed a committee of three to investigate the feasibility of a plan by which dwellings may be graded according to their construction.

# Asbestos Corporation Limited

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# MARKET CONDITIONS

General Business is considered to be good, with prospect for steady "prosperity," rather than any sign of boom conditions. This is gratifying, but when business commentators say that business is good, they very often refer to big, or at least satisfactory, demand only.

As everyone in business knows, however, demand can be good, and in consequence production high, while the net result is not satisfying, and, judging from a general view of net earnings in various lines for the first quarter of 1926, this seems to be the condition at the present time. Net earnings are not as high as they were last year in most lines, and the reason seems to be low selling prices—price reduction in other words.

Asbestos. This condition exists in the Asbestos line as well as in general lines, with the exception that we find in the Asbestos line a general trend toward higher prices, and an acceptance of those prices by customers without much question.

This ready acceptance of advance in price has been noted in the raw material market for the past several months. Whether the factors interested in the merging of Canadian mining interests intended it as propaganda or not, it is certainly a fact that the many newspaper and magazine articles published concerning the merger and its expected effect on prices, very definitely prepared the buyer of asbestos crudes and fibres for higher prices, and made him more ready to accept those prices when the advances were actually made. We have seldom seen a better example of the power of advertising, even tho in this instance most of the advertising appears to have been unpremeditated.

Of course the most active lines at present are the shingle, roofing, and others directly connected with building activity.

Brake Lining volume is, as usual, good, the increased automobile production helping on the one hand, while the opening of the replacement season (if the replacement

# We prepare ASBESTOS

Canadian Crude Russian White Rhodesian Yellow or Blue South African

For Your Particular Requirements

ASBESTOS LIMITED

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Page Seventeen

business ever does have what can be termed a season) gives its quota of business on the other.

Shingle business is very good, and the season just beginning. Competition, however, is going to be very keen in this line henceforth. We believe we have made this statement previously.

As a matter of fact, we do not remember having seen so much real activity in the asbestos industry since and excepting the war period. And by real activity we do not particularly mean simply the production and sale of asbestos and asbestos materials, but activity in the research end, the hunting for new asbestos materials, and the application of old ones to new uses.



Have a very interesting proposition for users of Asbestos Waste of all kinds. Address Box 3G-H, "ASBESTOS"

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ALL GRADES OF ASBESTOS FOR SALE

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This page devoted each month to the discussion of brake lining activities by O. B. Towne, Commissioner of the Asbestos Brake Lining Association

The Asbestos Brake Lining Association is deeply grieved at the death of J. Russell Kelso. Sr., of the Kelso Manufacturing Company, Trenton, N. J. This is the fourth time within the last twelve months that the Association has been called upon to mourn the passing of some of the officials of a member company.

The final page proofs of the Data Book are back in the hands of the printer and the book is well under way. One hundred and fifty eight thousand, seven hundred fifty books were ordered this year.

It looks like a good brake testing year. Thirty-three cities have written in to make arrangements for brake tests. The interest taken in traffic safety as a result of the attention paid to the question at the National Conference on Street and Highway Safety, recently held at Washington, has started people to thinking about these matters early.

New York State recorded a ten per cent decrease in the number of traffic accidents last year and the reasons given by the National Automobile Chamber of Commerce are as follows:

 Strong state laws, including revocation of licenses of careless drivers.

2. Efficient enforcement of the law.

3. Cooperation of cities with state authorities.

4. Vigorous policing of state highways.

 Engineering progress in road construction and street traffic control.

 Newspaper aid in publishing lists of license revocations.

On account of the number of accidents which have been due to faulty brakes, various investigations have been made into the causes. New brake lining is of no consequence unless the whole brake mechanism works properly. Therefore considerable attention has been paid to the carbon content of brake drum steel. The Association has therefore recommended to the S. A. E. that the carbon content of brake drum steel should be from forty-five to sixty-five points instead of the present low point content. This gives the brake lining a fair chance to do the work it is supposed to do. It is practically agreed that fifty per cent of the brake trouble is due to faulty brake mechanism including the quality of the steel used and only fifty per cent to wornout brake lining.

# AMOSITE ASBESTOS

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- (2) Tensile strength
- (3) High insulating properties
- (4) Lightness of weight

This Asbestos, in its various grades, has been proved eminently suitable for-

- (a) TEXTILES (Yarn and Cloth)
- (b) ASBESTOS-CEMENT SLATES, and corrugated roofing
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- (d) SECTIONAL COVERING

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Rest assured, the undertaker is the only individual who is opposed to good brakes, efficient brake mechanism and new brake lining, and the devil is on the sidelines in his capacity of president and general manager of the Society for the Promotion of Accidents, cheering the careless work of service station men, the willful neglect of the car owner and the efficiency of the undertaker.

#### AUTOMOBILE PRODUCTION

Total production of automobiles for March 1925 was 447,185, the highest March figure ever reached. March 1924 showed a total of 377,252.

The National Automobile Chamber of Commerce, which publishes the above figures, believes that while the March figure reaches a new high, it is not out of line with the trend of growth, being close to the normal line. While this year March is 18% ahead of the average for March in the past three years, that fact is not taken by the industry to indicate that 1926 will go very far ahead of 1925. It is felt that last year was an excellent business year and that a normal increase will be as much as can be expected.

#### MOTOR FATALITIES

During 1925 there were 19,828 motor fatalities, which is a 10% increase over last year. Vehicle registrations increased 12.7%. Study of the detailed statistics as reported by cities is most interesting.

# High-Grade Asbestos Textiles

CARDED FIBRES
YARNS, CORD, MANTLE YARNS
PLAIN AND METALLIC CLOTHS
BRAIDED AND WOVEN TAPES
BRAIDED TUBINGS
WOVEN SHEET PACKINGS
WOVEN BRAKE LININGS
GLOVES, MITTENS, LEGGINS
GASKETS, SEAMLESS AND JOINTED
PACKINGS, STEM AND HIGH PRESSURE
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# Comments from Foreign Correspondents

Ups and Downs of Crocidolite.

A few years ago blue Asbestos was practically unsalable. An operator in Prieska, S. Africa, was glad to accept £8 per ton for his stock of over 70 tons. Today he could sell with ease ten times that amount at £20 per ton if it were available. All the properties from Prieska to Kuruman are being worked to their utmost capacity, or rather to the utmost extent of the labor supply, but cannot cope with the demand. Of the longer fibres there is a very decided shortage, and it would appear that the supply of B, C, and D qualities (1 inch and over in length) is to a large extent exhausted, unless undiscovered deposits exist in some of these out of the way localities.

#### The Amianthus Mine.

The Amianthus Mine near Barberton in the Eastern Transvaal has acquired considerable fame of late. It is a deposit of chrysotile Asbestos, and has only been known and worked for some ten years or so. During the "boom" period of 1919-20, fibre from this property of excellent length and quality was sold at £200 per ton, and possibly even higher prices. But the quantity was limited, and engineers who visited the place reported on it unfavorably as being of a very patchy and uncertain nature.

The owners had great faith in the place and kept up development in face of great difficulties. Their pluck has been rewarded for the property has been purchased recently by Turner Brothers of Rochdale, who desired the property for its inexhaustible supplies of short fibre for

which there is great demand.

#### Amosite.

The Cape Asbestos Company, which recently acquired a large interest in the deposits of Amosite Asbestos in the Northern Transvaal, has succeeded in overcoming the difficulties attendant on working that variety and has recently put it on the market.

As is fairly well known, Amosite is of a whitish color

Page Twenty-four

April 1926

# Asbestos Fibre

for the manufacture

of

Roofing Cements · Fibrous Paints
Filtration Packings
Asbestos Shingles and Lumber
Insulating Cements
Asbestos Paper · Pipe Coverings
Asbestos Millboard
High Temperature Cements

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Office and Mines

EAST BROUGHTON, PROVINCE of QUEBEC

CANADA

and occurs in fibres of great length, up to 10 and 12 inches. It is therefore easy to mine and it has many of the valuable

properties of the blue or crocidolite variety.

The chief drawback in using Amosite was the difficulty encountered in preparing it for spinning, and the large amount of waste that occurred. By the adoption of improved machinery both these drawbacks have been to a great extent overcome and the future for this variety of asbestos seems assured.

India.

There was a perceptible growth in the import of asbestos products in the building lines during 1925. This correspondingly reflects that there was no new feature in the Asbestos Industry indigenous to India, whether it be manufacturing of asbestos products, or mining of the raw material.

There are three centers of production in India—Mysore State, Cudapah District in Madras Presidency, and the Sariekela State, which last is under the control of The Indian Mines and Minerals. While in Mysore and Sariekela only the amphibole variety is known in the working areas, the Cudapah District produces the chrysotile variety occurring in veins of serpentine and associated with limestone. Little is known about the progress made in Mysore and Cudapah, but from information had from the district heads, there seems to have been no noticeable progress.

The Indian Mines and Minerals has spent most of the

year in a study of the foreign markets.

# Magnesite in 1925

Some of our readers may be interested in statistics on

Magnesite for 1925.

The production of Crude Magnesite in the United States during the year was 120,660 tons, valued at \$1,432,700.

Imports of Magnesite totalled 4,429 tons of Crude, valued at \$54,593, most of which came from Italy; 17,102 tons of caustic calcined, valued at \$414,734, over one half of which came from India, and 47,613 tons of dead-burned, valued at \$703,074, practically all of which was from Italy.

# WHEN YOU BUY



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you get

Prompt Service
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We believe "Erection" belongs to the Dealer.

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April 1926

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#### JUSTIFICATION FOR THE MIDDLEMAN

"What's the price of that wrench?" asked a customer in a hardware store, and gasped when he was told "Five Dollars."

"But it surely doesn't cost that much to make a little wrench like that.'

"Oh no, of course not," said the clerk, who happened also to be the proprietor, "but it does cost that much to market it." "The wrench can probably be made for half or quarter of the retail price," he continued, "but by the time it is ready to go

over the counter it's worth the full five.'

"This howling about the elimination of the middleman always gets my goat" continued the proprietor. "Some people seem to think that all the middleman does is to hand out wrenches or whatever the product may be to anybody that comes along, and charge a handsome price for doing it. They don't consider that the middleman has to have a place of business, people to sell his goods, an established trade, a knowledge of markets, and innumerable other things, all of which cost money, and all of which, of course, must be paid for out of the price he charges for the goods."

"It's the same way with the 'consumer to you' line. prices of goods which you buy direct from the manufacturer may be cheaper, but if they are I never knew it. Generally it's The manufacturer the quality that's cheaper, not the price. doesn't eliminate the middleman-he is the middleman. doesn't establish branch stores or offices in the various cities and pay clerks to run them, then he must sell by mail, and the same money is spent for extensive advertising-and it all adds up

to about the same price in the end."

"You can't very often get something for nothing these days. and if you do somebody else pays for it. Service, meaning in the case of wrenches, transportation and selling service, comes highest of all. And in the end, to anyone who knows something of manufacturing, the use of the middleman is the cheapest method for it means the largest distribution, which in turn means larger production at less cost per unit."

#### WAGE NOTES

Cincinnati. On March 24th, an increase of 61/4c per hour was granted to the Skilled Trades, which means that Pipe Coverers now receive \$1.23%. This new scale will continue for a period of 13 months, or up to and including April 23, 1927.

#### BUILDING STATISTICS

As was to be expected, building showed a decrease in Feb-

Page Twenty-eight

April 1926

# "FIRE BACKING"

A COMBINATION OF THE BEST INSULATING VALUE, HIGH TEMPERATURE RESISTANCE MECHANICAL STRENGTH AND MODERATE COST

FURNISHED IN BLOCKS AND SECTIONAL PIPE COVERING



Patented and Made Exclusively by

NATIONAL MAGNESIA MFG. CO.

544 Market St.



San Francisco, Cal.

FACTORY-REDWOOD CITY, CAL.

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ruary, over the previous month. The February figures are 10,048 projects with floor space of 54,843,500, valued at \$389,899,800, while January was 9,829 projects, with 65,560,200 square feet of floor space, valued at \$457,158,600.

The above figures as usual apply to contracts awarded in the 37 eastern states, the figures collected and prepared by

F. W. Dodge Company.

# The Poet and Asbestos

One of our observant readers has been kind enough to send us an extract which he discovered in one of the Latin

Eclogues of the Italian poet Geraldini.

Geraldini was born in Italy in 1449, but he travelled much and came to feel himself a Spaniard rather than an Italian. He was a friend of Ferdinand and Isabella of Spain and it is reported that he had been active in helping Columbus, altho he died in 1489. He wrote much and one of his works is a set of twelve short poems or eclogues covering a series of episodes from the life of Christ. The last of these Eclogues is a conversation about the blessings of the happy life after death, and one of the speakers mentions asbestos. The extract reads:

"After the earth has been cleansed by purging fires it will shine whiter than ever with renewed brightness, just as the unburnable flax—asbestos lina—which is said to be found among the sands of India, which mortals turn to their own use, weaving cloths or coverings for their tables which when it is to be cleaned is burned for a long time in the flame of a fire and this takes away all its soil

and spots of dirt."

# Sesqui Notes

The latest news is that work is going on at a rapid pace and June 1st, the opening date, will see most, if not all, of the plans completed.

Every day the interest grows, and new plans are made, perfected and carried out.

To those of our readers who visit the Sesqui Centennial, is extended a cordial invitation to call at this office and let us extend to them any courtesy in our power to give.

Page Thirty

April 1926

# Nederlandsche Asbest My.

Importers of Asbestos Crudes and Fibres

ROTTERDAM - HOLLAND

Tel. Address: Nedam Rotterdam

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Codes
A. B. C. 5th Edition
Western Union
Lieber's Code

# ASBESTOS YARN MACHINERY

Carith Funbank"



# PROCTOR & SCHWARTZ, INC.

Formerly Smith & Furbush Machine Co.

Seventh St. & Tabor Rd., Philadelphia, Pa.

Relation of production various Canadian grades and comparing with Phodesian and South African production (Figured in short tons. Notsbestic include Sand & Waste Including from Canada 209879 tons. Imported by United States of America from Canada Canada – 224,992 tons, Paper's Other Canada - 177, 891 tons. Paper & Other 161,885 tons, Imported by United States of America Canada - 205, 564 tons, All Grades Canada - 7,661 tons, Spinning Fibre Canada - 28,114 tons. Shingle Rock Canada – 16,395 tores. Shingle Rock Canada - 11.551 tons, Spinning Fibre Canada - 208, 331 tons, All Grades Union of South Africa - 7,234 fons Union of South Alivica - 10,167 tons Canada - 3,617 tons, Crudes Canada - 3,674 tons, Crudes Rhodesia - 34,349 tons -Rhodesia - 26,140 tons

Showing Relation of Rock Mined to Usable fishestos Produced in Canada
4.121.258 tons Rock
268,331 tons fishestos
3,32+.727 tons Rock
205,564 tons fishestos

CCCCSSM

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#### Canada

The following tabulation shows sales of Asbestos from Canada during 1925, while the graph on the opposite page gives production figures of the several most important Asbestos Producing Countries for the same period.

S	ales	Av. Val.		on Hand 31, 1925
Tons	Value	per Ton	Tons	Value
Crude No. 1 1 044	\$381,025	\$364.96	1,191	\$ 434,667
Crude No. 2 3,832	789,875	206.12	704	145,108
Crude, Run of				
Mine 298	43,503	145.98	340	49,633
Spinning Fibre 16,070	1,710,379	106.43	3,115	331,529
Shingle Fibre 30,010	1,523,980	50.78	4,536	230,338
Millboard and Paper				
Fibres 93,935	2,915,046	31.03	8,663	268,813
Fillers, Floats, and other				
short fibres129,336	1,618,699	12.51	16,623	207,954
Totals274,525	\$8,982,507	\$ 32.72	35,172	\$1,668,042
By- Products (sand				
and gravel) 15,865	10,384	.65		
Grand Total 290,390	\$8,992,891			

If it is desired to compare these figures with those for the year 1924, we refer you to page 38 of the March 1925 number of "ASBESTOS."

The graph contains one error. Instead of Shingle Stock, our artist has made it read Shingle Rock.

Bulawayo District.	Decemb	er 1925
	Tons	Value
Nil Desperandum & Sphinx (Afr. Asb. Mng.		
Co. Ltd.)	522	£ 8.872
Pangani (J. S. Hancock)	16	191
Shabanie (Rho. & Gen. Asb. Corp. Ltd.)	1002	25,014
Lomagundi District.		

Ethel (Union & Rho, Tr. Ltd.) November	20	1,000
Victoria District.		
Gath's (R. & Gen. Asb. Corp. Ltd.)	1033	25,819
King and King A. (R. & Gen. Asb. Corp. Ltd.)	382	9.562

2.995 £70.458

1925

Rhodesia.

#### Rhodesia (Continued)

For the	Year	1925	by	Months	
Tons	Value				Tone

	Tons	Value		Tons	Value
January	2,298	£46,477	July	3,341	£80,979
February	1,439	22,032	August	3,128	71,732
March	2,165	48,177	September	2,977	69,899
April	2,206	48,683	October	3,803	84,688
May	3,066	69,893	November	3,515	82,406
June	3,416	70,502	December	2,995	70,458

34,347 £765,926

Union of South Africa.	Decembe	er 1925
	Tons	Value
Transvaal	689	£10,488
Cape	391	5,816
	1,080	£16,304

#### For the Year 1925 by Months

	Tons	Value		Tons	Value
January	793	£12,818	July	840	£10,887
February	820	13,196	August		15,604
March	784	12,520	September	842	12,568
April	598	8,104	October	920	13,574
May	819	9.984	November	848	15,562
June	762	10,994	December	1,080	16,304

10,161 £152,115

# IMPORTS AND EXPORTS

	Januar	у 1925	Janua	ry 1926
Imports into U. S. A.	Tons	Value	Tons	Value
Africa (Br. South)			319	\$54,506
Africa (Port. E.)	492	\$109,106	66	13,304
Canada	11,513	351,914	17,966	602,847
Germany			20	4,752
United Kingdom	162	39,372	3	1,842
	12.167	\$500.392	18 374	\$677 251

Unmanufactured Asbestos:

Of the 1926 Imports, all that from the Africas, Germany and England was Crude, while material from Canada consisted of 2,256 tons of Crude, valued at \$223,592, 5,893 tons of mill fibre valued at \$245,986, and 9,817 tons of lower grades, valued at \$133,269.

Page Thirty-four

April 1926

#### ASBESTOS -

January	1925	Januar	v 1926
Pounds	Value	Pounds	Value
2 865	\$ 1.264	17 924	\$ 5,408
	4 1,201	11,022	0,100
3 392	2 363	4.233	1.839
0,002	2,000	1,200	2,000
		8	8
			6
		301	347
22,000	-,	-	
743	351		
540	155	***	
221	321		***
1.096	852		
		117	114
2,600	1,679		
Lumber-			
62,875	982	1,451,506	22,327
		72,063	2,878
		55,628	997
46,057	895	***	
108,932	\$ 1,877	1,579,197	\$26,202
		59 280	1.251
	921		
		140,528	3,330
60,453	934	199,808	\$ 4,581
January			
Pounds		Pounds	Value
		500	34
	961		
180,636	3,842	8.612	222
10,703	3,537	6,572	2,270
	Pounds 2,865 3,392 11,803 743 540 221 1,096 2,600 Lumber 62,875 46,057 108,932 270 60,183 60,453 January Pounds 1,342,349 11,090	Pounds Value 2,865 \$ 1,264  3,392 2,363  11,803 5,124  743 351 540 155 221 321 1,096 852 2,600 1,679  Lumber—62,875 982 46,057 895 108,932 \$ 1,877 270 13 60,183 921 60,453 934  January 1925 Pounds Value 1,342,349 \$19,955 11,090 961	Pounds         Value         Pounds           2,865         \$ 1,264         17,924           3,392         2,363         4,233             12           11,803         5,124         301           743         351            540         155            1,096         852            1,096         852            117          72,063             72,063             55,628           46,057         895            108,932         \$ 1,877         1,579,197             59,280           60,183         921            60,453         934         199,808           January         1925         Januar           Pounds         1,342,349         \$19,955           11,090         961

#### Exports from U. S. A.

Grand Total All

Exports of unmanufactured Asbestos

For the month of January 1926 amounted to 6 tons valued at \$1,252; during January 1925, 135 tons were exported, valued at \$5,292.

Manufactures .1,734,823 \$41,536 1,817,284 \$41,031

26

#### ASBESTOS ~

Exports of 1	Manufa	ctured	Asbestos	Goods:
--------------	--------	--------	----------	--------

January Pounds	1925 Value	January Pounds	1926 Value
Paper, Mlbd. & Rlbd 24,493	\$ 2,587	167.143	\$14,049
Pipe Covg. & Cement338,252	19,998	511.391	34,697
Textiles, Yarn & Pkg 93,048	53,809	81,375	54.332
Brake & Clutch Lining. 58,012	38,677	113,884	77,512
Magnesia & Mfrs. of404,043	21,491	294,792	21.828
Asbestos Roofing 3,443 sc	18. 23,490	5.973 sqs	. 34,746
Other Manufactures204,065	41.081	382,060	39,205

#### Imports and Exports by England.

#### Imports of raw material.

mports of rate material.	Janua	ry 1925	Januar	ry 1926
	Tons	Value	Tons	Value
From Rhodesia	1,385	£34,926	920	£34,114
From Canada	783	14,178	353	6,028
From Other Countries	412	8,053	458	13,318
Total	2,580	57,157	1,731	53,460
Re-Exports	337	13,275	214	9,223

#### Exports of Asbestos Manufactures.

	Januar	ry 1925	Januar	ry 1926
	Tons	Value	Tons	Value
To Netherlands	. 22	£ 2,825	14	£ 1,957
To France	. 27	8,821	55	9,731
To U. S. A	. 12	2,503	15	2,465
To British India	. 233	9,361	550	12,693
To Australia	. 26	5,043	33	5,891
To Other Countries	. 939	47,782	1,054	54,749
	1.270	76.335	1 721	97 486

#### Exports of Raw Asbestos from Canada.

	Decem	ber 1924	Decem	ber 1925
	Tons	Value	Tons	Value
United Kingdom	480	\$ 28,235	110	\$ 24,300
United States	6,437	341,676	7,681	405,806
Australia			180	11,317
Belgium	220	9,500	50	2,250
Denmark				
France	680	50,200	763	64,770
Germany	1,169	91,345	269	31,490
Italy	1,031	56,762	321	23,310
Japan	625	33,263	80	8,120
Netherlands	120	10,600	140	9,250
Other Countries	***			
Total	10,762	621.581	9.594	580.613

Page Thirty-six

April 1926

## CYPRUS ASBESTOS COMPANY

#### LIMITED

Believing that our many friends will be intorested in the extensive additions and alterations we have made and are still making to our milling plant in Cyprus, we propose to reproduce on this page from time to time photographs of various phases of our activities.

Below is a photograph of one of the Company's standard Primary Mills, situated at the quarry face.

Output capacity of each Primary Mill:

One 100 lb. bag partially milled fibre per minute.



The partially milled fibre from each Primary Mill is blended and then passed through the one Finishing Mill, thus ensuring absolute uniformity of quality and grading.

SALES OFFICE:

49 ST. JAMES'S STREET, LONDON, S. W. 1.

Cable Address: Syndigef.

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#### ASBESTOS

			ber 1924		nber 1925	
Sand and Waste.	To	ons	Value	Tons	Value	
United Kingdom		369	\$ 6,458	160	\$ 3,110	
United States		,414	100,664	11.116	159,932	
Belgium						
France		60	1,200			
Germany		220	3.800	90	1,590	
Italy		25	500	300	4.950	
Netherlands						
Other Countries					***	
Total	9	.088	\$112,622	11,666	\$169.582	
Grand Total		,850	8734,203	21,260		
	-	ear	1924	Year		
	Tons		alue	Tons	Value	
United Kingdom	6,614		373,980	6,846	\$ 608,744	
United States	72,233	3,	904,161	94,292	4.979,303	
Australia	473		24,130	1,360	94,272	
Belgium	2,798		150,065	5,012	316,480	
Denmark	110		7,975	1,090	59.550	
France	5,640		452,151	5,484	438,195	
Germany	9,133		785,703	8,947	737,802	
Italy	2,439		151,778	3,730	260,263	
Japan	6,692		358,596	7,127	373,312	
Netherlands	1,068		88,580	2,707	212,855	
Other Countries			***	155	9,300	
	107,200	\$6.	297,119	136,750	\$8,090,106	
Sand and Waste.						
United Kingdom	3,110	\$	53,983	1,863	\$ 34,490	
United States	89,652	1,	124,031	115,587	1,490,341	
Belgium	60		1,200	221	4,090	
France	366		7.055	139	2,068	
Germany	1,438		25.505	1.963	33,565	
Italy	70		1.300	370	6.350	
Netherlands	360		6,450	851	16.210	
Other Countries	43		546	273	5,172	
Total	95,089	\$1.	220,070	121,267	\$1,592,286	
Grand Total	202,289		517,189	258,017	\$9,682,392	

The Nichols Centrifugal Products Company of Detroit, Mich., is conducting experiments with asbestos concrete, in connection with their centrifugal process for casting pressure pipe. The process does not anticipate the making of pipe under 18 inches in diameter. A description of the patents covering this process will be found on page 43 of this issue.



Birthdays. We extend our hearty congratulations and best wishes to John P. Kerner, President of the Mohawk Asbestos Slate Co., Inc., Utica, N. Y., whose birthday occurs April 25th.

The Standard Asbestos Manufacturing Company of Detroit, Mich., are constantly expanding their business of manufacturing and contracting pipe and boiler coverings. They have just purchased a building at 820 W. Baltimore avenue, which will be used for the exclusive manufacture of air cell coverings, this factory being operated in connection with the original location at Baltimore and 3rd Avenues where the General Office and Block Factory are situated.

Dave M Berk is manager and sole owner of the Company, while C. M Ramsey, who has been connected with the Asbestos Industry for many years, has charge of the Sales and Contract-

ing Departments.

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Elwood J. Wilson, Mining Engineer, 350 Madison avenue, New York City, sailed on Wednesday, March 24th, on the S. S. Republic, for Europe, where he will visit London, Paris and probably Brussels. The trip is purely a business one and Mr. Wilson expects to be back in the States by May 1st.

The Krewson Asbestos Co., announces as of March 15th, the opening of their office and warehouse at 542-44 N. 54th street, Philadelphia, where they will carry a full line of insulation products. This company is handling the product of the Norristown Magnesia & Asbestos Company of Norristown, and are specializing in the application of Pipe Covering.

"Magnesite & Magnesia", is the title of a Paper by H. M. Henton, Assistant Professor of Mining & Metallurgy, Pullman, Washington, given at the 133rd Meeting of the American Institute of Mining and Metallurgical Engineers, held in New York February 15th to 18th.

The Hudson Asbestos Mining & Development Company, which owns asbestos mining properties at Thurman. N. Y., is contemplating the development of these properties. The tract, consisting of about 1500 acres, is located in the Adirondacks within easy reach of railroad. Mining reports and specimens of material seem to indicate the asbestos to be of desirable quality.

The office of the Company is at 57 Murray Street, New York City, Wm. F. Blank being President; James A. Keilty, Vice President; C. F. Mann. Treasurer; William W. Wohlgemuth, Assist-

an Treasurer, and H. H. Downes, Secretary.

W. A. Godfrey, Manager and Secretary of the Cape Asbestos Company Limited, is at present paying his annual visit to the Continent of Europe.

April 1926

Page Thirty-nine

#### ASBESTOS

The Asbestos Corporation of Canada, Limited, submits its annual report for 1925, and we publish below Balance Sheet as of December 31, 1925:

ASSETS		
Plant and Equipment Mineral Areas and Real Estate	\$1,967,672.30 7,173,596.67	\$ 9,141,268.97
Sinking Fund Cash in hands of Trustee Other amounts deposited in Terms of Trust Deed	7,651.19 6,026.90	13,678.09
Investments: Dominion Govt. Bonds Company's Own Bonds and Other	1,109,486.16 750,809.50	1,860,295.66
Current Assets: Inventories Asbestos, Mat'ls., Supplies Account and Bills Receivable Cash Investment Thetford-Vimy, etc.	657,849.60 475,352.06 190,479.67 966,557.64	2,290,238.97
Deferred Charges to Operations		44,333.16
LIABILITIES		\$13,349,814.85
Capital Stock: Six Per Cent Participating Preferred, Authorized and Issued, 40,600 shares at \$100 ea. Common, Authorized and Issued, 30,000 shares at \$100 ea.	\$4,000,000.00 3,000,000.00	\$ 7,000,000.00
First Mortgage 30 yr. 5% Sinking Fund Gold Coupon Bonds—Authorized Issued Less: Purchased and held for Sinking Fund by Trustee	5,000,000.00 3,000,000.00 304,500.00	2,695,500.00
Current Liabilities: Bank Loan re Thetford-Vimy Limited Accounts and Bills Payable and Payrolls Accrued L'abilities Preferred Dividend paid Jan. 14, 1926 Common Dividend paid Jan. 15, 1926	745,756,64 176,520,03 1,220,31 60,000,00 45,000,00	1,029,496.98
Reserves: For Contingencies and Gov't. Taxes Surplus	1	151,608.39 2,473,209.48
i i		\$13 349 814 85

Asbestos Corporation, Limited (the new merger company) has announced in a letter to shareholders, its intention "unless something unforeseen happens," to start paying dividends on the preferred stock by a payment of a dividend of 1% per cent on July 15th, 1926, to shareholders of record July 2nd.

"Grafild" is the trade name adopted by the Worldbestos Corporation for its brake lining.

Mikesell Brothers Company. The first meeting of creditors of Mikesell Brothers Company, was held on March 30th. Up to date of going to press, no word has been received as to the result of this meeting.

"Masterite" has recently been registered by the Lister Rubber & Asbestos Packing Company of Lower Cratton Road, Bradford, England, as their trade name for Asbestos jointing in the nature of packing.

#### ASBESTOS~

Freight Classifications. Consolidated Classification Committee Docket No. 26, for April, 1926, lists a change suggested by shippers in the rating of brake lining, so that brake lining may take the same classifications when shipped in bundles, as when

shipped in burlapped bales or rolls, boxes or crates.

A change in the Western Classification from 1st to 2nd class is suggested for Insulating Blocks, Boards, Rods, Sheets or Tubes, and also a carload rating suggested of 4th class in Official, Southern and Western Classifications when shipped in bags, barrels, boxes or crates, c. l., mininum weight 36 000 pounds.

A rating of 4th class in Official. Southern and Western Classifications for carload lots of 30,000 pounds, is suggested on

Copper and Asbestos combined Washers or Gaskets.

The India Rubber Journal publishes in its March 6th number, a short article on "How Asbestos Cloth or Asbestos Fibre is Waterproofed and Colored."

The United Asbestos & Rubber Company, 2834 Loomis St., Chicago, is planning to erect a new one-story factory on 54th Avenue, 22nd to 23rd Street, Cicero. Ill., the plant to be 80x325 feet and estimated to cost approximately \$100,000 with equipment.

The Natural Resources Intelligence Service, Department of the Interior, Ottawa, Canada, has just issued a very comprehensive and up-to-date brochure on "Asbestos with Special Reference to Canada." This contains a general review of the industry, past and present, comments on the different varieties of asbestos, the industry in countries outside of Canada, information as to uses, tariffs, grading, mining and milling, and statistics as to imports, exports, production, etc.

Italian Asbestos Company, Limited, London. A petition for the winding-up of the Italian Asbestos Company has been presented to the High Court by Mr. Cecil Philip Adcock of Surrey, rubber manufacturer.

W. W. Fenimore, located at Utica N. Y., and working from the Syracuse, N. Y. office of Johns-Manville, Inc., resigned as of April 1st, and is now connected with the Canton Steel Ceiling Company of New York City, as Salesman covering Northern New York. Mr. Fenimore was employed by the Canton Steel Ceiling Company before his connection with Johns-Manville, Inc.

Mr. and Mrs. Grant V. Wilson of Chicago. Ill., are rejoicing in the birth of a son, Grant Junior, on April 1st. Mr. Wilson is Vice President of the Sall Mountain Company.

Pennington Asbestos Company. The asbestos mining properties of the Pennington Asbestos Company, at Thetford, valued at from \$350,000 to \$400 000, were sold at public auction in the offices of Larue and Trudel in Quebec on March 25th and were all secured by the Banque Canadienne Nationale, the company's largest creditor for a total of \$32.095. With the sale of a

April 1926

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Page Forty-one

#### ASBESTOS

Quebec Garrison Club bond and 35 shares of the Regent Asbestos Company, the total realized by the sale reached \$33,865.

The United States Asbestos Company, Manheim Pa., has recently appointed J. D. Rohrer, supervisor and research chemist. Mr. Rohrer was formerly chief chemist at the Newell, Pa., plant of the General Chemical Company.

Bell's United Asbestos Company, Limited. The annual report of Bell's United Asbestos Company, Limited. of London, for 1925, shows a most satisfactory profit, viz: £50,408/19/- as against £46,314/8/7 in 1924. Their balance sheet for 1925 is given in brief below:

given in brief below.		
ASSETS		
Cash £ 48,3		6
Bills Receivable 12,7		10
Investments	326 12	11
Shares and Debentures in Asso, Cos 280,8	328 7	8
Debtors	262 6	8
Payments in Advance and Sdry. Dr. Bal 4,5	543 10	1
Stock in Trade 100.6	007 7	11
Plant, Mchy., Fittings, etc. less Depr	116 8	4
Freehold Premises, less mtg. (Southwark St.) 26,8	376 19	2
Freehold Land and Bldgs. Harefield, and Italian Mining		
Concessions 103,	610 9	3
		-
£881,3	242 3	4
LIABILITIES		
Capital Stock fully paid		0
Bonds, etc., plus int. due January 1926 99,6	051 0	0
Creditors and Credit Balances 121,6	045 17	0
Reserve Funds 193,4	198 7	5
Depreciation Reserve	000 0	0
Profit and Loss Account,		
Brought from December 31, 1924 34,844 5 11		
Profit for Year 50,408 19 0		
OF 250 4 11		
Less Dividends Paid 9,138 6 0 76,	114 10	**
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The Directors, upon receipt of this report recommended the payment on April 26th, 1926 of a Dividend on the Ordinary Shares of 280d. per share, making a total distribution of 12½% for the year; the placing of £2,000 to Staft Pensions Fund; £8,000 to Reserve, and the carrying forward of £34,961, 14 11.

F. Hirschhorn, a director of the Cape Asbestos Company Limited is now on a visit to England.

Plant Rubber & Asbestos Works. The new buildings of the Plant Rubber & Asbestos Works are now about two thirds completed, new machinery is beginning to arrive on the ground, and the company expects its new factory to be in full operation by May 15th.

It will be remembered that the old plant was destroyed by fire on January 23rd, but fortunately both the finishing building and warehouse were unbarmed, and the fire therefore did not greatly hinder business.

Waldemar Meussdorffer, formerly mill superintendent for the Plant Rubber & Asbestos Works, has retired from the mag-

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nesia game to go into the real estate business in Redwood City. His former assistant, Frank Gainer, has succeeded to the position of Superintendent, and is reported by the owners to be making good.

The Stafford Insulation Company, 38 S. Canal Street, Chicago, Ill., insulating engineers and contractors, has recently established a branch at 413 W. Colfax Avenue, South Bend, Ind.

Thomas D. Stafford, formerly of the Minwool Corporation of Kalamazoo, is owner, and the Chicago office is in charge of Wm. J. Donahoe. The company does a general insulation contracting and material business.

#### PATENTS

Lining for Transmission and Brake Bands. No. 1,572,301. Granted on February 9th, to Harry J. Mead, Philadelphia, Pa. Filed December 4, 1924. Serial No. 753,786.

Described as a compound for treating the ends of transmission or brake bands composed of starch, gelatine and flake graphite.

Composition for treating Brake Linings. No. 1,573,468. Granted on February 16th, to Frank Edwin Weiser, San Luis Obispo, Calif., assignor of one half to Roy R. Palmer, San Luis Obispo. Filed July 16, 1924. Serial No. 726,388. Renewed July 9, 1925.

Described as a composition for treating brake linings, comprising 75 parts of turpentine, 16 parts of castor oil, 8 parts of graphite and one part of oil and citronella.

Process for making Light Basic Carbonate of Magnesium. No. 1,573,603. Granted on February 16th to Bertrand B. Grunwald, Alameda, Calif. Filed June 30, 1924. Serial No. 723,152.

Described as process of manufacturing a light basic carbonate of magnesium consisting of heating a mixture of heavy carbonate of magnesium and water under agitation to a temperature not exceeding 180 deg. F., whereupon the carbonate of magnesium expands in volume, and then cooling the mixture by adding cold water to prevent further expansion.

Centrifugal process for forming and finishing hollow bodies of plastic materials. No. 1,573,567. Granted on February 16th to C. R. Nichols, Detroit, Mich. Filed October 28, 1925. Serial No. 65,483. Described as in a centrifugal wire machine the combination of a rotary mould, mould charging means and means carried by the charging means for adding centrifugal action in simultaneous longitudinal and circumferential placement of the plastic material within the mould.

Note: Nos. 1,573,566, and 1,573,568, Serial Nos. 24,626 and 71,009, treat of the above centrifugal process, the latter particularly of impregnating cementitious products.



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## Asbestos Prepared Roofing

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- 4 Ply Fire Chief Asbestos Roofing, Burlap Center
- 3 Ply Black Seal Asbestos Roofing
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